ELSEVIER

Nuclear Engineering and Design 164 (1996) 297

Nuclear Engineering and Design

Contents of Volume 164

Introduction by Eric S. Beckjord ix

The probability of containment failure by direct containment heating in Zion
M.M. Pilch, H. Yan and T.G. Theofanous 1
Closure of the direct containment heating issue for Zion
M.M. Pilch and M.D. Allen 37
A tow-cell equilibrium model for predicting direct containment heating
M.M. Pilch 61
The prediction of direct containment heating
H. Yan and T.G. Theofanous 95
Hydrogen combustion during direct containment heating events
M.M. Pilch 117
Continued enlargement of the initial failure site in the reactor pressure vessel
M.M. Pilch 137
Experiments to investigate DCH phenomena with large-scale models of the Zion and Surry nuclear power plants
T.K. Blanchat and M.D. Allen 147
Investigations into the physical phenomena and mechanisms that effect direct containment heating loads
J.L. Binder and B.W. Spencer 175
Comparison of CONTAIN and TCE calculations for direct containment heating of Surry
K.E. Washington and D.S. Stuart 201
Modeling of corium dispersion in DCH accidents
Q. Wu, G. Zhang, M. Ishii and R. Lee 211
Experimental simulation of corium dispersion phenomena in direct containment heating
Q. Wu, G.J. Zhang, M. Ishii, S.T. Revankar and R.Y. Lee 237
High pressure simulation experiment on corium dispersion in direct containment heating
Q. Wu, S. Kim, M. Ishii, S.T. Revankar and R.Y. Lee 257
DCH dispersal and entrainment experiment in a scaled annular cavity
M. Lopez de Bertodano, A. Becker, A. Sharon and R. Schnider 271
Direct containment heating experiments for Vandellos and ASCo nuclear power plants
R.J. Hammersley, C. Cirauqui, J. Faig and R.E. Henry 287

Contents of Volume 164 297
Author Index of Volume 164 299
Subject Index of Volume 164 301
Instructions to Contributors 303